

WHAT IS CLAIMED IS:

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2           1.     A low profile evaporative cooler comprising:  
3                     a housing including a base, a top, and side walls defining an  
4 interior, a fan or blower being located within the interior having an outlet  
5 for blowing air through an opening in the housing;  
6                     a duct system having a first end with a first duct opening in  
7 fluid communication with the opening in the housing and a second end  
8 located a distance above the top of the housing and having a second  
9 opening for directing air into an opening in a building.

1           2.     The evaporative cooler of claim 1, wherein the opening in the  
2 building is a window, the top of the housing being located below a lower  
3 edge of the window.

1           3.     The evaporative cooler of claim 2, wherein the opening in the  
2 housing is in the top of the housing and the duct system spans a distance  
3 between the opening in the housing and the window.

1           4.     The evaporative cooler of claim 3, wherein the duct system  
2 is expandable to adjustably extend between two different distances from  
3 the housing.

1           5.     The evaporative cooler of claim 4, wherein the duct system  
2 includes an extension portion that is positioned within the opening in the  
3 window.

1           6.     The evaporative cooler of claim 5, wherein the duct system  
2 includes a diverter portion that directs the air from an upward direction to  
3 a horizontal direction into the extension portion.

1           7.     The evaporative cooler of claim 6, wherein, the opening in  
2     the extension portion is rectangular having a short pair of sides having a  
3     length equal to or less than one third of the length of the longer pair of  
4     sides.

1           8.     The evaporative cooler of claim 7, wherein the length of the  
2     short pair of sides is no greater than five inches.

1           9.     The evaporative cooler of claim 8, wherein the base includes  
2     adjustable legs extending below a bottom of the housing to level the  
3     housing or raise the housing relative to the window.

1           10.    The evaporative cooler of claim 9, wherein the extension  
2     member is secured to the window within a frame positioned between the  
3     window and the building.

1           11.    The evaporative cooler of claim 10, wherein the frame  
2     includes at least two portions that are expandable relative to one another  
3     to fit a variety of sized openings.

1           12.    The evaporative cooler of claim 11, wherein the frame  
2     includes means for securing the extension member and a plastic or glass  
3     portion between the extension member and building.

1           13.    A method for installing an evaporative cooler in a window  
2     located in a building, wherein the window includes at least one movable  
3     portion, the method comprising:  
4                placing an evaporative cooler having a housing with a  
5     vertical height extending from the ground lower than the vertical height of  
6     the bottom of the window;  
7                attaching a first portion of a duct to the housing;

8                    placing a frame between the movable portion of the window  
9                    and the building; and  
10                    securing a second portion of the duct to the frame; and  
11                    operatively securing the frame between the movable portion of the  
12                    window and the building.

1                    14.    The method of claim 13, wherein attaching a duct includes  
2                    providing an adjustable duct and adjusting the length of the duct to  
3                    extend from the housing to the window.

1                    15.    The method of claim 14, further including placing a clear  
2                    sheet of in the frame between the duct and the building, such that the  
3                    duct and the clear sheet have a combined length substantially equal to a  
4                    length of a window opening defined by the movable window and the  
5                    building.

1                    16.    The method of claim 15, wherein the frame includes a  
2                    removable portion that is removed to place the clear sheet and duct  
3                    within the frame, the removable portion being replaced to capture the  
4                    clear sheet and duct within the frame.

1                    17.    The method of claim 16, wherein the duct includes a diverter  
2                    portion diverting air from an upward direction to a horizontal direction  
3                    through the window opening.

1                    18.    The method of claim 17, wherein the diverter includes a  
2                    rectangular opening having a first pair of sides having a first length equal  
3                    to the length of the window opening as measured along the movable  
4                    portion of the window, the rectangular opening having a second pair of  
5                    sides having a distance equal to the distance between the movable  
6                    portion of the window and the building.

1           19.    The method of claim 18, wherein the length of the first pair  
2   of sides is at least three times greater than the second pair of sides.

1           20.    The method of claim 19, wherein the length of the second  
2   pair of sides is no greater than five inches.

1           21.    A low profile evaporative cooler comprising:  
2                   a housing including a base, a top, and side walls defining an  
3   interior, a fan or blower being located within the interior having an outlet  
4   for blowing air through an opening in the housing;  
5                   adjustable legs supporting the housing and extending below  
6   a bottom of the housing;  
7                   a duct having a first opening secured to the opening in the  
8   housing and a second opening for directing air into an opening in a  
9   building.

1           22.    The evaporative cooler of claim 21, wherein the duct  
2   includes a fixed portion extending from the opening in the housing to the  
3   opening in the building.

1           23.    The evaporative cooler of claim 22, wherein the duct  
2   extends from an opening in a side panel of the housing adjacent the top  
3   of the housing.